

REGION4 CS52CD COPYSMART

Standalone CD Duplicators

User Manual



– V1.9 –

Chapter 1 Introduction

1.1 Overview

Users who want to backup their CDs normally have to go through many steps by turning on their computer, launching the software, setting up various parameters, and tidying up their computer. Sometimes it can take up to an hour to get only a few disc backups. A standalone **CopySmart** will easily resolve this inconvenience.

CopySmart is a CD-to-CD-R(W) standalone duplicator and does not need to connect to a computer. It duplicates almost any format of disc with excellent accuracy. With its professional mechanism design and multi-function LCD panel, CopySmart is easy for any end-user to operate. It is a perfect cost-effective disc duplicator for audio, data, and video applications. The simple four button control panel is designed to provide copy modes selection and copy operation.

1.2 Features

- Standalone IDE to IDE CD Copy controller
- Self system diagnostics when power on
- Auto format detection
- User friendly interface with message rich LCD display
- Supports high speed CD-RW writing mode
- Easy operation without software and training are required
- Firmware upgrade via CD-ROM

1.3 Specifications

Power requirement - voltage : 240V

Environment - Temperature

Operating +0 °C to +70 °C

Storage -20 °C to +85 °C

Dimensions:

Length: 285 mm

Width: 190 mm

Height: 165 mm

CD Format - CD-ROM (Mode1 & Mode2), CD-ROM/XA (Mode2 form1 & form2), CD-DA, Mixed-Mode, Video CD, CD-I, Karaoke CD, Photo CD (Single & Multi-session), CD-Extra, HFS, CDBridge, ISO9660, CD-R, and CD-RW

Writing mode - Auto Detect (DAO, TAO)

Chapter 2 Installation and Operation Procedure

Unpack the duplicator.

Check the entire unit to see if there is any mal-function or damage found.

Make sure that the voltage setting is correct.

Connect power cable.

Switch on the CopySmart with the front power button.

2.1 Key Functions and Operating Instructions



LCD Display Panel: Displays main functions and all messages.



Scroll up through menus or functions.



Scroll down through menus or functions.



Executes the function which you select.



Cancels the function which you select.

Power on the system. The CopySmart will process a self-test for a few seconds. After the self-test has completed, the LCD will show:

CD Duplicator 1-1 ver: 1.80L
Initialize SDRAM.....
Detect Drives.....
1. Copy

2.2 Quick Start

- Place master disc in CD-ROM.
- Switch to Copy function by pressing arrow button.
- Place a blank CD-R or CDRW disc into the CD writer.
- Press "ENT" button to start copying once the writer detects the CD discs (front panel lights stop flashing).
- When Copy is completed on the writer, the passed CD disc will be ejected (Default setting: discs passed will be ejected. This can be changed according to your need).
- For continuous duplication, place additional blank discs into the CD writer and repeat the above procedures.
- Failed disc(s) will remain in the CD writer (Default setting: Failed disc NOT ejected. This can be changed according to your need). Pressing the "ENT" button will eject any failed CD from the writer or press each eject button on the CD writer to eject disc manually.

Chapter 3 Function

3.1 Copy

When running the coping process, the data will really burn into the blank CD-R/RW disc. Before starting the coping process, please make sure the master CD is put in the CD-ROM drive before coping.

1. Copy

Place blank CD-R/CD-RW disc into the CD writer. When the writer detects the CD, press “ENT” button, duplicator will start copying.

Copying-24X 0%
650.0MB 74:00

LCD will show the process of copying the disc.

1.Copy
OK: 01

When copying is completed, those discs passed will be ejected automatically and failed ones will remain in CD writer.

Put new CDs in the writer for additional copies.

NOTE: The CopySmart is capable of CD-RW writing. Data stored in the CD-RW disc will be quickly erased automatically before copying new data, no special setting or procedure is required to erase the old data.

3.2 Test

This will simulate the CD-R/RW disc writing process. When testing is completed, the CD-R/RW disc will remain blank.

2.Test

Press “ENT” button to start the disc copy simulation or press “ESC” to exit.

Erasing disc

For CD-RW discs that contain data, emulate will do quick erase of all old data before emulation. Thus, never do emulate on CD-RW discs that contain important data.

Testing-24X 0%
650.0MB 74:00

LCD will show the process of testing the discs.

2.Test
OK: 01

When the process is finished, the LCD will show the message of the “Test” result.

Termination during Test will not affect the CD-R disc and it will remain blank. But please note that CD-RW discs containing data will be destroyed and cannot be retrieved again. Some CD writers may not support sudden termination during operation. The duplicator may hang up and you can only reset those writers by re-starting the power.

3.3 Test & Copy

3.Test & Copy

Press "ENT" button to do the disc testing then really write the data on the disc or press "ESC" to exit.

Testing-24X 0%
650.0MB 74:00

Before starting the copying process, the writer will simulate the data writing process.

Copying-24X 0%
650.0MB 74:00

When testing process is completed, duplicator will start writing data onto the CD-R/RW disc. The CD-R/RW disc will contain data.

3.Test & Copy
OK: 01

When the process is finished, the LCD will show the result of the "Test & Copy".

3.4 Verify

This will verify if the target disc can be read correctly in the CD-ROM drive after copying of the disc. Discs in the CD writer and CD-ROM drive can be verified together simultaneously.

4.Verify

Press "ENT" button to start the disc verify or press "ESC" to exit.

Verify--24X 0%
650.0MB 74:00

LCD will show the progress of the "Verify" process.

4.Verify
OK: 01

When the process is finished, the LCD will show the "Verify" result.

3.5 Compare

The data on master and target disc will be compared to each other. This will confirm an accurate copy has been made.

5.Compare

Press "ENT" button to run the disc compare or press "ESC" to exit.

Compare-24X 0%
650.0MB 74:00

LCD will show the progress of "Compare" process.

Compare OK: 1
Fail: 0 Diff: 0

When the process is finished, the LCD will show the result of the "Compare" process. The CD disc will be ejected by CD writer.

Src: 01 CD-ROM
Total: 650.0MB

Press "ENT" button to see the results of "Compare"

Src: 02 CD-RW
Identical

If the compare result is identical, the LCD will show the message as left.

Compare OK: 2
Fail: 1 Diff: 0

If the compare result has failed the message will show the number of discs failed & succeeded.

Src: 01 CD-ROM
Total: 0 Bytes

Press "ENT" button to see the detail of "Compare" information.

Src: 02 CD-RW
TOC not match

If the compare result is failed, the LCD will show the reason of fail message as left.

3.6 Prescan

This function will scan the master disc to confirm if can read correctly and test the reading speed.

6.Prescan

Press "ENT" button to prescan the disc or press "ESC" to exit.

Scanning-24X 0%
650.0MB 74:00

LCD will show the process of the prescan.

PreScan OK!

If the master of the disc can be read correctly, the LCD will show "OK!" message.

PreScan Fail!

If the master disc cannot read correctly, the LCD will show "Fail!" message.

3.7 Disc Info

This function will show the total amount information on the master disc.

7.Disc Info

Press "ENT" button to show the disc information or press "ESC" to exit.

Total 02 Sessions
Total 10 Tracks

The LCD will show the total sessions and tracks on the master disc.

Total: 74:00
Total: 650 MB

Press "ENT" button again, the LCD will show the total time and capacity on the master disc.

Session 01
Track 01 – 09

Press "ENT" button again and use the arrow button to select the session, LCD will show what information is contained on the session.

Track 01
AUDIO 03:54

Press "ENT" button again and use arrow button to select the track, LCD will show what the information is contained on the track.

3.8 Select Source

This function is provided to set the target source. The source could be selected from CD-ROM or CD-R/RW

8.Select Source

Press "ENT" button to modify the select source function or press "ESC" to exit..

Src: CD-ROM
01 IDE0 Master

Use the arrow button to select the CD-ROM or CD-RW as the master source.

CD-ROM selected!

When the source is selected, then press "ENT" button. LCD will show the source information as on the left.

3.9 Image

This function will show "No HDD" on the LCD.

3.10 Edit Track

This is a track-selecting function that can combine tracks on different CD discs into one single CD disc. For example, you can make a collection of favorite songs from different music CDs and store them into one CD disc.

10. Edit Track

Press "ENT" button and arrow button to select or press "ESC" to exit.

3.10.1 CD to CD Edit

Select "CD to CD Edit" to choose the CD track on the CD-ROM, then you can copy directly from CD to CD.

10-01. Edit Track
CD to CD Edit

Press "ENT" button to change setting; "ESC" button to bring you to next setting.

Select Track:
1/10 03:25

Follow the LCD to select the track you want to edit

Select Track:
+1/10 03:25

Press "ENT" button to select track. After the track is selected, the "+" will appear. Pressing "ENT" again will cancel the track that you selected to edit.

Select Track:
End 1Trk03:25

Finally, when the track selection is made use the arrow buttons to move to "End".

End edit disc
and burn?Yes

Press "ENT" button to finish the track selection. Using the arrow buttons confirm to burn the track.

Copying- 24X Edit
1/10 - > 1/1

LCD will show the process of "CD Edit" copying process.

Burn Complete!
OK: 01

When track copying is finished, the LCD will show the "Burn Complete!" message.

Continue edit
next Disc?Yes

System will ask if to continue edit. Use the arrow buttons to make "Yes" or "No" selection.

Insert next disc

If "Yes" is selected, the source disc will be ejected. Please insert another audio disc to edit.

Select Track:
+2/10 04:25

Follow the step to select the track that you want to edit. Then press "ENT" button to add it on the disc.

Select Track:
End 2Trk07:50

Finally, when the track of selection is made. Please use arrow button to move to the "End" menu.

End edit disc
and burn?Yes

Press "ENT" button to finish the disc editing, using arrow buttons to make "Yes" or "No" selection.

Copying- 24X Edit
1/10 - > 2/2

LCD will show the process of "CD Edit" copying process.

Burn Complete!
OK: 01

When Copy is finished, the LCD will show the "Burn Complete!" message.

Continue edit
next Disc?No

System will ask if you wish to continue editing. Use arrow buttons to make the "No" selection then press "ENT" button.

Close all disc's
session? Yes

The system will ask to close the disc session. Using arrow buttons make "Yes" or "No" selection.

Closing Session
Please wait---

LCD will show the process of closing the session.

3.10.3 Play Audio Track

Select "Play Audio" will use the CopySmart as a music player. You can plug speakers into the audio out from the front panel of the CD-ROM drive.

10-03. Edit Track
Play Audio Track

Press "ENT" button to enter the play audio function; "ESC" button to bring you back one menu.

Select Track:
1/10 03:25

Use arrow buttons to select which track you are going to play.

Playing Track-1
00:00 / 03:25

LCD will show the process of "Audio Playback".

3.10.4 Close Session

Selecting "Close Session" will make the disc close and you cannot write any additional data to it. This function is required to allow the disc to be read on normal player.

10-04. Edit Track Close Session	Press "ENT" button to close session; "ESC" button to bring you to next setting.
Close all disc's session? Yes	System will ask a confirmation to close the disc's session. After this step, the disc cannot have additional data written to it.
Closing Session Please wait---	LCD will show the progress of the disc closing.
Closing Complete OK :1 Fail :0	When closing session is finished, the LCD will show the number of discs "OK" and "Fail" message.

3.11 Setup

This function contains a list of options that allow user to change the original default settings. As there are different settings under the setup function to control the duplicator's operation, we suggest using the original default settings for optimal operation.

11. Setup	Press "ENT" button to enter the "Setup" function.
-----------	---

3.11.1 Language (optional)

Use this option to set which language is shown on the LCD. There are English, Traditional Chinese, Simplified Chinese and Japanese languages.

11-01. Setup Language	Press "ENT" to change the setting and "ESC" to exit.
--------------------------	--

3.11.2 Burn Speed

This setting controls the maximum writing speed of CD writers. Default setting is "Auto" which will use the highest writing speed of the writers. Sometimes maximum writing speed will cause high failure rates that may be due to poor CD quality or unstable CD writing in high speed. Under these circumstances, please lower the writing speed under this setting to get higher successful rate in CD writing.

11-02. Setup Burn Speed	Press "ENT" to enter the setting and "ESC" to exit.
Burn Speed 24X	Use arrow buttons to change the burning speed then press "ENT". (Depending on the CDRW drive maximum speed support)

3.11.3 Read Speed

Sets the reading speed of the target source CD-ROM.

11-03. Setup Read Speed

Press "ENT" to enter the setting and "ESC" to exit.

Read Speed 32X

Use arrow buttons to change the reading speed then press "ENT". (Depends on the CDROM maximum speed support)

3.11.4 Auto Start Drive

Use this setting to auto start copy or test when the blank discs are inserted into the CD/RW drives. Default setting is "Off".

11-04. Setup Auto Start Drive

Press "ENT" button to enter "Auto Start Drive" and "ESC" to exit.

Auto Start Drive Off

Use arrow buttons to change "The number" or "Off" setting then press "ENT" or press "ESC" to go back.

3.11.5 Start up menu

This setting selects one of the menu items which will become the first menu item to show when turning on duplicator.

11-05. Setup Startup Menu

Press "ENT" button to enter "Startup Menu" and "ESC" to exit.

Startup Menu 1.Copy

Use arrow buttons to select menu item setting for the first menu item to show (1 to 11 items) then press "ENT".

3.11.6 Auto Verify

This setting controls On and Off of auto verify for the target. Default setting is "Off".

11-06. Setup Auto Verify

Press "ENT" button to enter "Auto Verify" and "ESC" to exit.

Auto Verify Off

Use arrow buttons to change "On" or "Off" setting then press "ENT" or press "ESC" to go back.

3.11.7 Auto Compare

This setting controls auto compare of the data between master and target discs after discs copy. Default setting is "Off".

11-07. Setup
Auto Compare

Press "ENT" button to enter "Auto Compare" and "ESC" to exit.

Auto Compare
Off

Use arrow buttons to change "On" or "Off" setting then press "ENT" or press "ESC" to go back.

3.11.8 Auto Prescan

This setting controls the auto prescan of the master of the disc and tests the reading speed. Default setting is "OFF".

11-08. Setup
Auto Prescan

Press "ENT" button to enter "Auto Prescan" and "ESC" to exit.

Auto Prescan
Off

Use arrow buttons to change "On" or "Off" setting then press "ENT" or press "ESC" to go back.

3.11.9 Eject Disc

This setting controls the ejection of discs by the CD writer. Three options are available: "Eject Good Only" setting will only eject the passed discs automatically and leave the failed ones in the CD writers. "Eject All Disc" means the CD writers will eject the CD discs no matter whether the copy operation is successful or failed. "Do Not Eject" means all discs will remain in CD writers when the job is done and you will have to eject discs from the CD writers manually.

11-09. Setup
Eject Disc

Press "ENT" button to enter "Eject Disc" and "ESC" to exit

Eject Disc
Eject Good Only

Use arrow buttons to select "Eject Good Only", then press "ENT" or press "ESC" to go back.

Eject Disc
Eject All Disc

Use arrow buttons to select "Eject All Disc", then press "ENT" or press "ESC" to go back.

Eject Disc
Do Not Eject

Use arrow buttons to select "Do Not Eject", then press "ENT" or press "ESC" to go back.

3.11.10 Burn on The Fly

This setting controls the writing methods of the CD writers. When the setting is "On", the data will direct copy from source drive to the target drive.

11-10. Setup
Burn On The Fly

Press "ENT" button to enter "Burn On The Fly" and "ESC" to exit

Burn On The Fly
On

Using arrow button to change "On" or "Off" setting then press "ENT" or press "ESC" to go back.

There is no HDD !

The CopySmart has no hard drive, the LCD will show the message as left.

3.11.11 Burn Mode

This setting controls the writing methods the CD-RW disc including "Disc At Once" (DAO) or "Track At Once" (TAO). Default setting is "DAO". Some CD writers may support different writing methods. If the method selected is not supported, the duplicator will automatically switch to the other one.

11-11. Setup
Burn Mode

Press "ENT" button to enter "Burn Mode" and "ESC" to exit

Burn Mode
DAO

Use arrow buttons to change "TAO" or "DAO" mode setting then press "ENT" or press "ESC" to go back.

3.11.12 Button Sound

This setting controls button sounds. Default setting is "On". Press "ENT" button to change and "ESC" to exit.

11-12. Setup
Button Sound

Press "ENT" button to enter "Button Sound" and "ESC" to exit

Button Sound
On

Use arrow buttons to change "On" or "Off" setting then press "ENT" or press "ESC" to go back.

3.11.13 Device Info

This function will show what devices are connected. Each devices brand and type of information will be shown on LCD.

11-13. Setup
Device Info

Press "ENT" button to enter the device information and "ESC" to exit.

00 IDE0 Master
CD-ROM : BRAND

Use arrows button to select the device or press "ESC" to go back.

MODEL
FIRMWARE

Press "ENT" button to see the device information and
"ESC" to go BACK.

01 IDE1 Master
CD- RW : BRAND

Using arrow button to select another device or press
"ESC" to go back.

MODEL
FIRMWARE

Press "ENT" button to see the device information and
"ESC" to go back.

3.11.14 System Info

This function will show the system of information on the LCD.

11-14. Setup
System Info

Press "ENT" button to enter the "System Info" and see
the next information, press "ESC" to exit.

CD Duplicator
1-1 ver: 1.80L

The LCD shows as below:

SST: 39SF020
2001 / 11 / 16

3.11.15 Quick Erase

This function will quick erase the data on the CD-RW discs. It will only take a short time to do it.

11-15. Setup
Quick Erase

Press "ENT" button to enter the "Quick Erase" and "ESC" to exit.

All data will be
lost, erase?Yes

Use arrow buttons to change "Yes" or "No" setting then press "ENT" or press "ESC" to go back.

Erasing disc
00:24 (Quick)

LCD will show the process of the erasing disc.

Quick Erase
OK:01 Fail:00

When erasing disc is finished, the LCD will show the message as left. Press "ESC" to go back.

3.11.16 Full Erase

This function will fully erase the data on the CD-RW disc. As it will completely erase all data, it will take a few minutes complete.

11-16. Setup
Full Erase

Press "ENT" button to enter the "Full Erase" and "ESC" to exit.

All data will be
lost, erase?Yes

Use arrow buttons to change "Yes" or "No" setting then press "ENT" or press "ESC" to go back.

Erasing disc
03:24 (Full)

LCD will show the process of the erasing disc.

Full Erase
OK:01 Fail:00

When erasing disc is finished, the LCD will show the message as left. Press "ESC" to go back.

Chapter 4 Trouble Shooting

1. No display on LCD or the unit does not operate when power on.

Please check the connection of power cable and the environment of power outlet is normal.

2. LCD shows the Error message.

During operations like Copy, Test, Compare and Verify, you may press ESC button to abort the operation. An Error message will be shown on the LCD. With some CD writers the abort will cause the duplicator to hang up and you have to re-start the power to return to normal operation. Failed reading may cause the error message shown on the LCD display. Change the master CD to try again.

During operation if buffer under run or writing errors occur, the LCD will show error message like: Pass xx, failed xx.

If there is no device connected and detected by duplicator during power-on, the duplicator will show error message on LCD before entering the main menu.

3. CD-ROM can not read disc and shows error message.

Check the format of master CD or master CD itself for damage.

Use the CD-Writer to read the master; if it works, the CD-ROM may be defective or not compatible with CD-ROM.

4. Buttons do not function.

May be still busy on task.

Button malfunction.

Faulty board.

5. Copy completed but CD-R disc is not readable / executable?

Use compare to check.

Change to source drive to test.

6. The failure rate is high.

Lower the speed of CD-Writer and try again.

Quality of blank disc is poor.

Check for latest firmware version.

Check the CD-Writer maximum writing speed.

7. Can not boot-up or fail to upgrade firmware.

Contact your dealer to solve the problem. Please note you may be charged for this.

A failed firmware upgrade might cause failed boot. This can only be solved by returning the duplicator to the agent or factory directly.

8. To cancel the duplicator working process.

Press "ESC" button for 2 seconds to cancel any "Copy", "Test", or "Verify" etc. function while the job in working process.

Appendix 1

Directory Structure

1. Copy

2. Test

3. Test&Copy

4. Verify

5. Compare

6. Prescan

7. Disc Info

8. Select Source

9. Image

10. Edit Track(For AUDIO disc only)

10.01 CD to CD Edit

10.02 CD to HDD Edit

10.03 Play Audio Track

10.04 Close Session

11. Setup

12. Adv Setup

11.01 Language

(LCD Type1:English)

11.02 Burn Speed

(If no disc in CD-RW, list all supported speed else list speed supported by disc)

11.03 Read Speed

(Maximum)

11.04 Auto Start Drive

(If ready CD-RW number equals to this value, auto start to copy or test)

11.05 Startup Menu

11.06 Auto Verify

(On Off)

11.07 Auto Compare

(On Off)

11.08 Auto Prescan

(On Off)

11.09 Eject Disc

(1.Eject Good Only 2.Eject All Disc 3.Do Not Eject)

11.10 Burn On The Fly

(On Off)

11.11 Burn Mode

(1.DAO 2.TAO)

11.12 Button Sound

(On Off)

11.13 Device Info

11.14 System Info

11.15 Quick Erase

11.16 Full Erase

Appendix 2 LCD Message List

Normal LCD Message List :

Message Description

Initialize SDRAM	Initialize the memory on the system
Detect Drives	Detect what drives are connected to the system
User Abort!	Job was cancelled
Analyzing....	Analyzing the source disc
Source Drive Not Ready	Source drive is not ready to read
Target Drive Not Ready	Target drive is not ready to write
Source Disc Not Ready	Source disc in not ready for reading
Target Disc Not Ready	Target drive is not ready for writing
Erasing disc	System is erasing the data on the CD-RW disc
Fail to get Drive Info!	The drive is not correctly recognised
Fail to get Src Disc Info!	Cannot read the information from CD-ROM
Save new config Fail!	The new setting of configuration cannot be saved
Load Default Config? Src&Tgt can't in the same channel	Loading the factory default setting When doing the compare operation, the source and target can not in the same channel
Preparing.....	System is preparing the data and devices connecting for CD recording
Check Target Please Wait.....	System is checking the target device, wait for a while
Audio Disc!!! Can't compare!	Audio disc comparing is not supported
Identical	Confirmation after comparing that the contents of CD is the same
Read disc error	During the comparing the disc has a read error
Cannot read TOC	CD's TOC data can not read
TOC not match	After comparing, the source and target device' s TOC do not match
Source Disc Empty !!!	The source CD is blank without data
Target overflow	The target blanks do not have enough space to record the source
Target Disc Not Empty!!!	The target disc is not empty to record
Press a Key to Eject Good Disc	Press any key to eject the good disc after the recording process
Press a Key to Eject Fail Disc	Press any key to eject the fail disc after the recording process
CD-RW does not Support the Func	CD-RW drive does not support this function
Hold ESC to exit	Press "ESC" for a seconds to terminate the testing
All data will be lost, erase?	All data on the CD disc will be lost. Confirm to erase the CD-RW disc
Erase Finished	CD-RW disc has been erased
No Eraseable Disc in CD-RW !!	The CD discs in the CD-RW drive is not erasable disc

Audio Edit Messages :

Message Description

Lost selected

Tracks?

Abort the tracks selected and delete it

End edit disc and

burn?

Finish the music disc edit and start to record the CD

Continue edit next

Disc?

Asking to continue editing next music disc or not

Target Overflow

Re-Select

The CD disc space is not enough to record the selected track,
please re-select another

Close all disc's

session?

Closing the disc's session and will not allow to record any further
data

Can't edit HDD

No AUDIO track in

this disc

The hard drive can not edit as a source audio CD

Insert next disc

The source CD disc can not find a audio track

Sessions were

Asking to insert the next audio disc

closed already !

The disc session has already been closed

Burn or Move to

partition?

Confirmation of direct burning to CD disc or move the data to the
partition

Tgt overflow, del last

trk?

The CD disc space is not enough to record the selected track,
asking to delete the last track.

Ins empty disc

Continue?

Asking to insert an empty disc and continue the process